## **Abstract**

The present invention relates to plants of the genus *Raphanus* containing increased levels of anthocyanins. In particular the edible sprouts and turnips of the *Raphanus* plants contain high levels of anthocyanins and thereby provide health-promoting effects. The anthocyanins in the *Raphanus* plants are present at a level of at least 100 nmol per gram of fresh weight and have an absorbance maximum at a wavelength in the range of 515 to 550 nm. The invention also provides methods for growing the *Raphanus* plants as purple sprouts, both in the form of alfalfa-type sprouts as well as in the form of two-leafed plantlets, referred to as cress or micro-vegetables. The invention further provides methods for producing anthocyanins based on growing the *Raphanus* plants and isolating anthocyanins therefrom.

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$$R_1 = R_2 = H: Pelargonidin$$

$$R_1 = OH, R_2 = H: Cyanidin$$

$$R_1 = OCH_3, R_2 = H: Peonidin$$

$$R_1 = R_2 = OH: Delphinidin$$

$$R_1 = OCH_3, R_2 = OH: Delphinidin$$

$$R_1 = OCH_3, R_2 = OH: Delphinidin$$

$$R_1 = OCH_3, R_2 = OH: Petunidin$$

$$R_1 = R_2 = OCH_3: Malvidin$$

Formula 1